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4, 7TH MAIN MALLESWARAM, BANGALORE - 3
Certificate No : [illegible]

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT : 53 Grade

Lab ID	:	CP/2017/07/04/04
Customer	:	Assistant Executive Engineer, I Basavahalli Sub Division, BBMP, Bangalore
Address	:	I Basavahalli Sub Division, BBMP, Bangalore
Project Name	:	Construction of EWC Centre at Rajalaginte Ward No 14, I Basavahalli Sub
Agency	:	Technical Manager (West), EPBH, Project Implementation Unit, No 285, 29th Cross, 17th 'C' Main Road, 3rd 'C' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EPBH/WU/103/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04.07.17
Sample ID No	:	2017.07.04.04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 (Part 1,2,4,5,6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5.1 Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11 DETERMINATION OF DENSITY, Clause 6
Date of test	:	05.07.17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.8	
2	Fines by Air permeability method (m^2/kg, Min)	255.9	225m^2/kg, Min
3	Density (gm/cc)	3.22	
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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R KARTHIK RECHAS
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-07-04-04
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore. **Date: 02-08-17**
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of DWCC Centre at Bagalagunte Ward No.14, T.Dasarahalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/105/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-04-04** **Date: 07-07-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP,
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of DWCC Centre at Bagalagunte Ward No.14, T.Dasarahalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/105/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-04-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5345	5589	37.3	62.7	30-70
4	10 mm	4589	10178	67.9	32.1	10-35
5	4.75 mm	4431	14609	97.4	2.6	0-5
6	Pan	391	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-04-04** **Date: 07-07-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP,
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of DWCC Centre at Bagalagunte Ward No.14, T.Dasarahalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer Reference	:	BBMP/EE/DD/WO/105/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-04-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	265	265	5.3	94.7	90-100
3	10 mm	2543	2808	56.2	43.8	25-55
4	4.75 mm	1765	4573	91.5	8.5	0-10
5	Pan	427	5000	100	0	-

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Certificate No.: T- 4350

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-04-04**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore. **Date: 07-07-17**
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of DWCC Centre at Bagalagunte Ward No.14, T.Dasarahalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/105/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-04-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	04-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	144	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	165	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	176	570	57.0	43.0	15-34	35-59	60-79	80-100
6	300 micron	187	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	149	906	90.6	9.4	0-10	0-10	0-10	0-15
8	Pan	94	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-07-04-04

Sample ID No : 2017-07-04-04-03

Date: 07-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	-
2	Specific Gravity	2.57	-
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	CP-2017-07-05-01 **Date: 11-07-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP,
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of DWCC Centre at Bagalagunte Ward No.14, T.Dasarahalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/105/2017-18
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample ID No	:	2017-07-05-01-02
Identification Mark on Brick	:	Non Modular Bricks
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011)
Date of test	:	05-07-17

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	121.7	4.9	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	126.6	5.1	
3	231.01	107.99	24947	118.3	4.7	
4	230.11	107.54	24746	121.5	4.9	
5	228.16	106.98	24409	117.6	4.8	
Average of 5 bricks					**4.9**	

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Lab ID : CP-2017-07-05-01
Sample ID No : 2017-07-05-01-02
Date: 11-07-17

4/9/17

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Heavy	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Heavy	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Heavy	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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